

AMENDMENTS TO THE CLAIMS

Claims 1-4 (canceled)

5. (currently amended) The ~~support bound probe solid support~~ of claim 12, wherein the crosslinking moiety is psoralen.

6. (currently amended) The ~~support bound probe solid support~~ of claim 12, wherein the target moiety is a single-stranded or double-stranded nucleotide sequence.

Claims 7-8 (canceled)

9. (currently amended) The ~~support bound probe solid support~~ of claim 12, wherein the pairing oligonucleotide sequence comprises between 3 and 50 nucleotides.

10. (currently amended) The ~~support bound probe solid support~~ of claim 12, wherein the pairing oligonucleotide sequence comprises between 3 and 20 nucleotides.

11. (currently amended) The ~~support bound probe solid support~~ of claim 12, wherein the pairing oligonucleotide sequence comprises between 3 and 10 nucleotides.

12. (currently amended) A solid support bearing an array of support-bound probes of claim 4 on the surface thereof, wherein said support bound probes comprise:

a capture oligonucleotide sequence covalently attached to the surface of said solid support, and

a conjugate, comprising

a target moiety,

a pairing oligonucleotide sequence which specifically hybridizes to the surface-bound oligonucleotide sequence, and which is covalently attached to the target moiety, and

a crosslinking moiety covalently bound to the pairing oligonucleotide sequence and to either the surface-bound oligonucleotide sequence or the surface of the solid support, and

wherein said solid support bears a probe density of between 1-12 x 10⁻¹¹ moles per cm².

13. (original) The solid support of claim 12, bearing at least 50 probes on the surface thereof.

14. (original) The solid support of claim 12, bearing at least 100 probes on the surface thereof.

15. (original) The solid support of claim 12, bearing at least 500 probes on the surface thereof.

16. (cancelled)

17. (original) The solid support of claim 12, bearing a probe density between $2 - 6 \times 10^{-11}$ moles per cm^2 .

18. (original) The solid support of claim 12, bearing a probe density between $3 - 4 \times 10^{-11}$ moles per cm^2 .

19. (original) The solid support of claim 12, wherein the array comprises a library of target moieties.

Claims 20-47. (canceled)

48. (currently amended) The ~~support bound probe~~ solid support of claim 12, wherein the linking moiety is an alkylene group.

49. (currently amended) The ~~support bound probe~~ solid support of claim 12, wherein the linking moiety is polyethylene glycol.